

WHAT IS CLAIMED IS:

1. A tricycle with a rocking mechanism, comprising:
 - a pair of suspension arms extending leftwardly and rightwardly from a body frame;
 - rear wheels mounted for upward and downward movement independently of each other on said suspension arms; and
 - a rocking mechanism for permitting leftward and rightward rocking movement of said body frame with respect to a suspension arms side, the rocking mechanism being provided between said suspension arms side and a body frame side,wherein said left and right suspension arms are connected to each other by resilient means and connection means provided at the opposite ends of said resilient means.
2. The tricycle with a rocking mechanism according to claim 1, said connection means comprising:
 - links mounted for swinging movement on said suspension arms and substantially L-shaped bell cranks mounted for swinging movement at ends of said links;
 - a first fulcrum provided at a bent portion of each of said bell cranks;
 - second and third fulcra provided at the two end portions of each of said bell cranks,wherein said first fulcra are mounted at the ends of said links, said second fulcra are mounted on said body frame side, and said third fulcra are mounted at the end portions of said resilient means.

3. The tricycle with a rocking mechanism according to claim 2, wherein said left and right L-shaped bell cranks are connected at said second fulcra thereof to end portions of a connection member while a middle portion of said connection member is mounted for swinging movement on said body frame, and said connection member and said resilient means are disposed substantially in parallel to each other.

4. The tricycle with a rocking mechanism according to claim 3, wherein said resilient means is disposed above said connection member.

5. The tricycle with a rocking mechanism according to claim 3, wherein the body frame includes a J frame having a lower horizontal portion extending substantially horizontally, a rear end inclined portion having an upper end side is displaced rearwardly with respect to a lower end side, and an upper inclined portion having a front end portion displaced upwardly with respect to a rear end portion, the right and left suspension arms being mounted on the rear end inclined portion of the J frame.

6. The tricycle with a rocking mechanism according to claim 2, wherein the links are arcuate-shaped.

7. The tricycle with a rocking mechanism according to claim 2, wherein each of the L-shaped bell cranks is composed of two crank plates and includes a first bolt serving as the first fulcrum, a second bolt serving as the second fulcrum, a third bolt serving as the third fulcrum, and a fourth bolt serving as a stopper pin for restricting the extending and contracting movement of the resilient member.

8. The tricycle with a rocking mechanism according to claim 7, wherein the connection member is formed with sectoral portions of a sectoral shape provided at the opposite ends thereof and includes arcuate elongated holes provided in the sectoral portions, respectively, the fourth bolts each serving as the stopper pin are fitted in the arcuate elongated holes to restrict the inclination angles of the bell cranks with respect to the connection member, respectively.

9. The tricycle with a rocking mechanism according to claim 5, wherein the connection member is mounted on the rear end inclined portion of the J frame through the rocking mechanism.

10. The tricycle with a rocking mechanism according to claim 1, wherein the rocking mechanism is a Neidhardt damper.

11. A tricycle with a rocking mechanism, comprising:

a pair of suspension arms extending leftwardly and rightwardly from a body frame;

rear wheels mounted for upward and downward movement independently of each other on said suspension arms; and

a rocking mechanism for permitting leftward and rightward rocking movement of said body frame, the rocking mechanism and a connection member being mounted for swinging movement on said body frame by a through pin,

wherein said left and right suspension arms are connected to each other by a shock absorber and connection means provided at the opposite ends of said shock absorber.

12. The tricycle with a rocking mechanism according to claim 11, said connection means comprising:

links mounted for swinging movement on said suspension arms and substantially L-shaped bell cranks mounted for swinging movement at ends of said links;

a first fulcrum provided at a bent portion of each of said bell cranks;

second and third fulcra provided at the two end portions of each of said bell cranks,

wherein said first fulcra are mounted at the ends of said links, said second fulcra are mounted on said body frame side, and said third fulcra are mounted at the end portions of said shock absorber.

13. The tricycle with a rocking mechanism according to claim 12, wherein said left and right L-shaped bell cranks are connected at said second fulcra thereof to end portions of the connection member while a middle portion of said connection member is mounted for swinging movement on said body frame, and said connection member and said shock absorber are disposed substantially in parallel to each other.

14. The tricycle with a rocking mechanism according to claim 13, wherein said shock absorber is disposed above said connection member.

15. The tricycle with a rocking mechanism according to claim 13, wherein the body frame includes a J frame having a lower horizontal portion extending substantially horizontally, a rear end inclined portion having an upper end side is displaced rearwardly with respect to a lower end side, and an upper inclined portion having a front end portion displaced upwardly with respect to a rear end portion, the right and left suspension arms being mounted on the rear end inclined portion of the J frame.

16. The tricycle with a rocking mechanism according to claim 12, wherein the links are arcuate-shaped.

17. The tricycle with a rocking mechanism according to claim 12, wherein each of the L-shaped bell cranks is composed of two crank plates and includes a first bolt serving as the first fulcrum, a second bolt serving as the second fulcrum, a third bolt serving as the third fulcrum, and a fourth bolt serving as a stopper pin for restricting the extending and contracting movement of the shock absorber.

18. The tricycle with a rocking mechanism according to claim 17, wherein the connection member is formed with sectoral portions of a sectoral shape provided at the opposite ends thereof and includes arcuate elongated holes provided in the sectoral portions, respectively, the fourth bolts each serving as the stopper pin are fitted in the arcuate elongated holes to restrict the inclination angles of the bell cranks with respect to the connection member, respectively.

19. The tricycle with a rocking mechanism according to claim 15, wherein the connection member is mounted on the rear end inclined portion of the J frame through the rocking mechanism.

20. The tricycle with a rocking mechanism according to claim 10, wherein the rocking mechanism is a Neidhardt damper.